

Notice of Allowability	Application No.	Applicant(s)	
	10/660,976	VITALIANO ET AL.	
	Examiner	Art Unit	
	Russell S. Negin	1631	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment of 11/20/2006 and the terminal disclaimer of 2/9/2007.
2. ☒ The allowed claim(s) is/are 1-42, 44, 48-52, 54, 55, 58, 59, 62-64 and 66-68.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date <u>11/20/2006</u> | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Franco Vitaliano on 8 February 2007.

The application has been amended as follows:

In the claims:

Please amend the instant set of claims to include the following changes:

1. (Currently Amended): ~~An isolated non-naturally-occurring~~ laser light source offering precise control over its fabrication and operation comprising:
a man-made cage, up to 100 nanometers in diameter, defining a ~~calculated, artificial,~~ environment-isolating cavity that is bioengineered and formed from a plurality of artificially-induced self-assembling purified Clathrin protein molecules, and one or more man-made cargo elements ~~calculatedly~~ located within the man-made cavity, wherein at least one of the cargo elements contains a man-made, artificially configured fluid and or a quantum dot,
wherein the cargo element cavity and or its contained fluid internally and ~~calculatedly~~ reflects one or more artificially-selected wavelengths of light in response to one or more artificially-selected and induced frequencies of electromagnetic excitation, and

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wherein the ~~non-natural~~ laser light source, ~~by human design~~, emits one or more photons of specified frequencies of light in response to ~~a~~ an ~~one or more purposely induced types of stimuli, stimulus resulting in controlled lasing that is not practically utilized in naturally occurring systems, because by definition the latter do not offer the required precise control over their fabrication and operation,~~

and

~~which stimuli can further have the optional effect, by human design, of calculatedly deforming deforms the cargo element cavity in order to tune its Q value and resonant frequency in a purposely controlled fashion.~~

2. (Currently Amended): An isolated ~~non-naturally occurring~~ laser light source according to claim 1 comprising, ~~artificially configured receptors for artificially capturing and calculatedly positioning one or more artificially configured cargo elements within the man-made self-assembling protein cavity such that it enables non-natural placement of one or more cargo elements with minimal inter element spacings, thereby allowing dense cargo element packing and with minimal inter cargo interference.~~

3. (Currently Amended): An isolated ~~non-naturally occurring~~ laser light source according to claim 2 comprising, ~~an artificial vesicle located within the artificially configured cage and enclosing one or more artificially configured cargo elements, wherein the artificially configured receptors~~

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extend through the ~~man-made vesicle~~ to capture and ~~calculatedly~~ position a ~~artificially configured cargo element within the man-made vesicle such that it enables non-natural placement of one or more cargo elements with minimal inter-element spacings and with minimal inter-cargo interference.~~

4. (Currently Amended): An isolated ~~non-naturally-occurring~~ laser light source according to claim 3 comprising, ~~artificially configured adaptors calculatedly disposed between the receptors and the artificially configured cage and artificially binding to the one or more artificially configured receptors such that it enables non-natural placement of one or more cargo elements within the man-made vesicle.~~

5. (Currently Amended): An isolated ~~non-naturally-occurring~~ laser light source according to claim 1 comprising, ~~a man-made vesicle located within the artificially configured cage and artificially and calculatedly enclosing one or more artificially configured cargo elements.~~

6. (Currently Amended): An isolated ~~non-naturally-occurring~~ laser light source according to claim 1 comprising, ~~artificially configured molecular tethers for calculatedly capturing and non-naturally positioning one or more artificially configured cargo elements within and or outside the man-made cavity.~~

7. (Currently Amended): An isolated ~~non-naturally-occurring~~ laser light source according to claim 1 comprising, ~~artificially-configured~~ direct cage bonding for ~~calculatedly~~ capturing and ~~non-naturally~~ positioning one or more ~~artificially-configured~~ cargo elements within and ~~or outside~~ the ~~man-made~~ cavity.

8. (Currently Amended): An isolated ~~non-naturally-occurring~~ laser light source according to claim 1 further comprising, ~~artificially-configured~~ receptors, molecular tethers and direct cage bonding for ~~calculatedly~~ capturing and ~~non-naturally~~ positioning one or more ~~artificially-configured~~ cargo elements within and ~~or outside~~ the ~~man-made~~ cavity.

9. (Currently Amended): An isolated ~~non-naturally-occurring~~ laser light source according to claim 1 further comprising, one or more ~~artificially-configured~~ cargo elements forming a non-permeable ~~calculated, man-made~~ cavity.

10. (Currently Amended): An isolated ~~non-naturally-occurring~~ laser light source according to claim 3 further comprising, a ~~man-made~~ vesicle forming an ~~artificial, non-permeable, calculated, man-made~~ cavity.

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11. (Currently Amended): An isolated ~~non-naturally-occurring~~ laser light source according to claim 3 comprising, a vesicle defining a ~~man-made~~ cavity located within the ~~artificially-configured~~ cage, wherein a ~~artificially-configured~~ fluid and or a ~~artificially-configured~~ quantum dot are by design contained in the ~~man-made~~ vesicle cavity.

12. (Currently Amended): An isolated ~~non-naturally-occurring~~ laser light source according to claim 1, wherein the ~~artificially-configured self-assembling~~ cage is ~~man-made to be~~ electrically neutral and that the ~~cage calculatedly~~ inhibits charge transfer between the ~~man-made~~ cage and its enclosed, ~~artificially-configured~~ cargo elements.

13. (Currently Amended): An isolated ~~non-naturally-occurring~~ laser light source according to claim 3, wherein the ~~artificially-configured~~ vesicle is ~~man-made to be~~ electrically neutral and that the ~~vesicle calculatedly~~ inhibits charge transfer between the ~~man-made~~ vesicle and its enclosed, ~~artificially-configured~~ cargo elements.

14. (Currently Amended): An isolated ~~non-naturally-occurring~~ laser light source according to claim 4, wherein the ~~artificially-configured~~ receptors and adaptors are by ~~human design~~ electrically neutral and ~~calculatedly~~ inhibit charge transfer between the ~~man-made~~ vesicle and ~~artificially-configured~~ cage and their enclosed, ~~artificially configured~~ cargo elements.

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15. (Currently Amended): An isolated ~~non-naturally-occurring~~ laser light source according to claim 1, wherein the ~~artificially-configured~~ cage ~~calculatedly and by human design~~ reduces ~~natural and man-made~~ contaminant background radiation to ~~artificially configured~~ cargo carried within the ~~man-made~~ cage.

16. (Currently Amended): An isolated ~~non-naturally-occurring~~ laser light source according to claim 3, wherein the ~~man-made~~ vesicle ~~by human design~~ reduces ~~natural and man-made~~ contaminant background radiation to ~~artificially-configured~~ cargo carried within the vesicle.

17. (Currently Amended): An isolated ~~non-naturally-occurring~~ laser light source according to claim 1 comprising, a ~~artificial~~, self-assembling framework of ~~artificially configured~~ cages to that ~~by human design~~ structurally support one or more self-assembling ~~artificial~~ light sources ~~in order to produce a man-made design~~.

18. (Currently Amended): An isolated ~~non-naturally-occurring~~ laser light source according to claim 1 comprising an ~~artificially-configured~~, self-assembling, ~~deliberately~~ electrically neutral substrate of ~~artificially-configured~~ cages to structurally support one or more of the ~~artificially-configured~~ self-assembling, ~~artificially-configured~~ light sources, ~~forming a man-made design~~.

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19. (Currently Amended): An isolated ~~non-naturally-occurring~~ laser light source according to claim 1 comprising, ~~an artificially-configured~~ self-assembling framework of ~~artificially-configured~~ cages to ~~purposely~~ structurally order one or more self-aligning artificial light sources, ~~forming a man-made design~~.

20. (Currently Amended): An isolated ~~non-naturally-occurring~~ light source according to claim 1, wherein the one or more ~~artificially-configured~~ cargo elements is a ~~artificially~~ configured single cargo element comprising a ~~artificially-configured~~ cargo element that defines a ~~man-made~~ cavity that ~~purposely~~ contains a ~~artificially-configured~~ fluid and or a ~~artificially-configured~~ quantum dot.

21. (Currently Amended): An isolated ~~non-naturally-occurring~~ light source according to claim 1, wherein the ~~plurality of artificially-configured~~ cargo elements are ~~purposely~~ a plurality of ~~artificially-configured~~ cargo elements.

22. (Currently Amended): A light source according to claim 21, wherein the plurality of ~~artificially-configured~~ cargo elements are ~~man-made~~ light source cargo elements.

23. (Currently Amended): An isolated ~~non-naturally-occurring~~ light source according to claim 21, wherein the plurality of ~~artificially-configured~~ cargo elements are ~~man-made~~ ~~to be~~ non-light source cargo elements.

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24. (Currently Amended): An isolated ~~non-naturally occurring~~ light source according to claim 21, wherein at least some of the plurality of ~~artificially configured~~ cargo elements are ~~artificially configured~~ light source cargo elements.

25. (Currently amended): An isolated ~~non-naturally occurring~~ light source according to claim 21, wherein at least some of the plurality of ~~artificially configured~~ cargo elements are ~~artificially configured~~ non-light source cargo elements.

26. (Currently amended): An isolated ~~non-naturally occurring~~ laser light source according to claim 1, wherein the ~~artificially configured~~ cargo elements ~~calculatedly~~ respond to ~~purposely and artificially directed~~ stimuli internal and external to the ~~man-made~~ cage.

27. (Currently amended): An isolated ~~non-naturally occurring~~ laser light source according to claim 3, wherein a ~~man-made~~ vesicle and its contained ~~artificially configured~~ cargo elements ~~calculatedly~~ respond to ~~purposely and artificially directed~~ stimuli ~~that are~~ internal and ~~or~~ external to the ~~man-made~~ vesicle.

28. (Currently Amended): An isolated ~~non-naturally occurring~~ laser light source according to claim 1, wherein ~~an artificially configured~~ cargo element also contains an ~~artificially configured~~ fluid and or the ~~man-made vesicle-contained~~ encapsulates an ~~artificially configured~~ fluid that contains one or more ~~artificially configured, performance~~

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~~altering dyes of any suitable type, with or without artificially configured, performance
altering scattering particles, or with or without other artificially configured, performance
altering dopants that calculatedly produce any chosen adjustment to lasing
characteristics, of any man-made design.~~

29. (Currently Amended): An isolated ~~non-naturally-occurring~~ laser light source according to claim 21, wherein a subset of the ~~artificially configured~~ cargo elements include one or more ~~artificially configured~~ liquids without dopants or with one or more ~~artificially configured performance-altering dopants type that calculatedly produce any chosen adjustment to lasing characteristics, of any man-made design.~~

30. (Currently Amended): An isolated ~~non-naturally-occurring~~ laser light source according to claim 21, wherein a subset of the ~~artificially configured~~ cargo elements include a ~~artificially configured performance-altering gas or artificially configured performance-altering vapor~~ without dopants or with one or more types of ~~artificially configured performance-altering dopants of any suitable type that calculatedly produce any chosen adjustment to lasing characteristics, of any man-made design.~~

31. (Currently Amended): An isolated ~~non-naturally-occurring~~ laser light source according to claim 1, wherein a ~~artificially configured~~ cargo element cavity containing one or more ~~artificially configured~~ quantum dots comprise a ~~artificially configured~~

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~~photonic dot type that calculatedly produces any chosen lasing characteristics, of any man-made design.~~

32. (Currently Amended): An isolated ~~non-naturally-occurring~~ laser light source according to claim 3, wherein a ~~man-made~~ vesicle cavity containing one or more ~~artificially-configured~~ quantum dots comprises a ~~artificially-configured~~ photonic dot type ~~that calculatedly produces any chosen lasing characteristics, of any man-made design.~~

33. (Currently Amended): An isolated ~~non-naturally-occurring~~ laser light source according to claim 1, wherein the ~~an optional, artificially-induced~~ internal or external ~~man-made~~ cavity deforming stimulus includes one or more ~~artificially-induced~~ stimuli of any ~~suitable-chosen~~ type, including but not limited to mechanical, chemical, fluidic, biological, photonic, thermal, sonic, and electrical or electromagnetic stimuli type ~~that calculatedly produce any chosen lasing characteristics, of any man-made design.~~

34. (Currently Amended): An isolated ~~non-naturally-occurring~~ laser light source according to claim 1, wherein a ~~man-made~~ spherical cargo element cavity and or a ~~man-made~~ spherical vesicle cavity is ~~optionally and artificially induced to be deforming~~ deformed in response to an ~~artificially-induced~~ external stimulus, and ~~by human design,~~ the ~~artificially-deformed~~ spherical cavity is ~~purposely assumes the configuration of an~~ asymmetric resonant cavity (ARC).

35. (Currently Amended): An isolated ~~non-naturally-occurring~~ laser light source according to claim 1, wherein a ~~artificially configured~~ spherical fluid droplet contained within a ~~artificially configured~~ spherical cargo element cavity and or contained within a ~~artificially configured~~ spherical vesicle cavity is ~~optionally and purposely~~ deformed in response to a ~~purposely~~ deformed cargo element cavity and or to a ~~purposely~~ deformed vesicle cavity, and the ~~so purposely~~ deformed spherical droplet thereby becomes, ~~an by human design,~~ an asymmetric resonant cavity (ARC) type ~~that calculatedly produces any chosen lasing characteristics, of any man-made design.~~

36. (Currently Amended): An isolated ~~non-naturally-occurring~~ laser light source according to claim 1, wherein the ~~artificially configured~~ ARC ~~optionally~~ deforms from a first preferred geometry to a second preferred geometry and the desired wavelength of the one or more photons is dependent on the second geometry.

37. (Currently Amended): An isolated ~~non-naturally-occurring~~ laser light source according to claim 1, wherein selectable, ~~preferred~~ quantum dot energy emissions are used to ~~purposely~~ tune the Q-value and resonant frequency of the ~~artificially configured~~ ARC photonic dot type ~~to calculatedly produce any chosen Q-value and resonant frequency, of any man-made design.~~

38. (Currently Amended): An isolated ~~non-naturally-occurring~~ laser light source

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according to claim 1, wherein any chosen Q-value (whispering gallery modes) and resonant frequency of the ~~man-made~~ laser are ~~purposely~~ tunable by using an artificially configured ARC to ~~calculatedly produce any chosen Q-value and resonant frequency of any man-made design.~~

39. (Currently Amended): An isolated ~~non-naturally occurring~~ laser light source according to claim 1, wherein the ~~artificially configured~~ ARC is a Q-switched laser, whose Q-value is ~~purposely controlled to calculatedly produce any chosen Q-value and resonant frequency, of any man-made design.~~

40. (Currently amended): An isolated ~~non-naturally occurring~~ laser light source according to claim 1, wherein the ~~man-made~~ laser light source is an ~~ultrabright~~, a ~~purposely tunable source of light to calculatedly produce any chosen wavelength and/or intensity of light, of any man-made design.~~

41. (Currently Amended): An isolated ~~non-naturally occurring~~ laser light source according to claim 1, wherein there is the ability to ~~purposely~~ couple a ~~chosen~~ high-Q/whispering gallery mode out of the ~~man-made~~ ARC with a ~~directionality in order to calculatedly produce any chosen lasing directionality, of any man-made design.~~

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42. (Currently Amended): An isolated ~~non-naturally-occurring~~ laser light source according to claim 1, wherein it operates at an ultralow threshold ~~by human design to calculatedly produce any chosen lasing threshold, of any man-made design.~~

44. (Currently amended): An isolated ~~non-naturally-occurring~~ laser light source according to claim 1, wherein the ~~man-made~~ laser light source ~~include one or more~~ is a therapeutic single task and or multitask in vivo and or in vitro agents that are ~~calculatedly induced to perform a task.~~

48. (Currently Amended): An isolated ~~non-naturally-occurring~~ laser light source according to claim 1, wherein the ~~man-made~~ cage is bioengineered in whole or in part.

49. (Currently Amended): An isolated ~~non-naturally-occurring~~ laser light source according to claim 1, wherein the ~~artificially-induced~~ self-assembling protein molecule is a purified clathrin molecule.

50. (Currently Amended): An isolated ~~non-naturally-occurring~~ laser light source according to claim 1, wherein the ~~man-made~~ cage comprises ~~artificially-induced~~ self-assembling synthetic protein molecules.

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51. (Currently amended): An isolated ~~non-naturally occurring~~ laser light source according to claim 4, wherein ~~artificially configured~~ receptors, adaptors, and or vesicle comprise natural and or synthetic protein molecules.

52. (Currently Amended): An isolated ~~non-naturally occurring~~ laser light source according to claim 4, wherein the ~~artificially configured~~ receptors, adaptors, and vesicle are bioengineered at least in part.

54. (Currently amended): An isolated ~~non-naturally occurring~~ laser light source according to claim 3, wherein the ~~artificially configured~~ vesicle is ~~calculatedly~~ coated at least partially in a substantially reflective material ~~in one or more materials that purposely enhance any chosen performance parameter of the vesicle, of any man-made design.~~

55. (Currently amended): An isolated ~~non-naturally occurring~~ laser light source according to claim 1, wherein the ~~man-made~~ cage is ~~calculatedly~~ coated at least partially in a substantially non-reflective material ~~in one or more materials that purposely enhance any chosen performance parameter of the cage, of any man-made design.~~

58. (Currently amended): An isolated ~~non-naturally occurring~~ laser light source according to claim 4, wherein the ~~artificially configured~~ receptors, adaptors, and vesicle

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are at least partially metal coated in ~~one or more materials that purposely enhance any~~
~~chosen performance parameter, of any man-made design.~~

59. (Currently Amended): An isolated ~~non-naturally-occurring~~ laser light source according to claim 1, wherein the ~~man-made~~ cage is ~~artificially induced to be~~ greater than about one nanometer in diameter.

62. (Currently Amended): An isolated ~~non-naturally-occurring~~ laser light source according to claim 1, wherein the ~~man-made~~ cage is ~~artificially induced to be~~ substantially symmetric with respect to a plane ~~in order to facilitate any chosen~~ ~~performance characteristic, of any man-made design.~~

63. (Currently Amended): An isolated ~~non-naturally-occurring~~ laser light source element according to claim 1, wherein the cage has ~~been artificially ordered to~~ substantially have icosahedral geometry ~~in order to facilitate any chosen performance~~ ~~characteristic, without of any man-made design.~~

64. ((Currently amended): An isolated ~~non-naturally-occurring~~ light source according to claim 1, wherein ~~by means of artificial inducement~~ multiple ~~artificially configured~~ light sources are ~~physically and or functionally~~ linked together ~~in order to facilitate any man-made design.~~

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66. (Currently amended): An isolated non-naturally-occurring laser light source according to claim 1, wherein the ~~artificially configured~~ laser light source, ~~by means of artificial inducement,~~ forms a hybrid system upon its physical and or functional integration with other ~~chosen~~ elements in vitro and or in vivo ~~in order to facilitate any man-made design, of any man-made design.~~

67. (Currently Amended): A method for forming an isolated non-naturally-occurring light source comprising
~~artificially induced~~ self-assembling protein molecules ~~into that forming a man-made~~ cage defining a ~~calculated, artificial, environment isolating~~ cavity, and locating one or more ~~artificially configured~~ cargo elements within the ~~man-made~~ cavity, wherein, at least one of the ~~artificially configured~~ cargo elements defines a ~~man-made~~ cavity that contains an ~~artificially configured~~ fluid and/or a ~~artificially configured~~ quantum dot, wherein the ~~artificially configured~~ cargo element cavity and or its contained ~~artificially configured~~ fluid internally reflects one or more wavelengths of light in a ~~specified~~ response to an ~~artificially induced~~ electromagnetic excitation of a ~~purposely specified~~ range, and
wherein the ~~man-made~~ laser light source ~~purposely~~ emits one or more photons of light in a ~~specified frequency and or light intensity~~, and further,
in ~~optional~~ response to an ~~artificially induced~~ stimulus, ~~optionally deforming~~ deforms the ~~artificially configured~~ cargo element cavity into a geometry that is, ~~by human design,~~ characteristic of an ~~asymmetric resonant~~ cavity.

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68. (Currently Amended): A laser light source according to claim 1 comprising,
a purposely functionalized cage for deliberately attaching one or more artificially
configured elements external to the man-made cage in order to facilitate any chosen
function, of any man-made design.

Conclusion

Papers related to this application may be submitted to Technical Center 1600 by facsimile transmission. Papers should be faxed to Technical Center 1600 via the central PTO Fax Center. The faxing of such pages must conform with the notices published in the Official Gazette, 1096 OG 30 (November 15, 1988), 1156 OG 61 (November 16, 1993), and 1157 OG 94 (December 28, 1993)(See 37 CFR § 1.6(d)). The Central PTO Fax Center Number is (571) 273-8300.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Russell Negin, Ph.D., whose telephone number is (571) 272-1083. The examiner can normally be reached on Monday-Friday from 7am to 4pm.

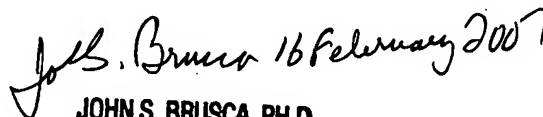
If attempts to reach the examiner by telephone are unsuccessful, the examiner's Supervisor, Irem Yucel, Supervisory Patent Examiner, can be reached at (571) 272-0781.

Information regarding the status of the application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information on the PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RSN
16 February 2007



16 February 2007


JOHN S. BRUSCA, PH.D.
PRIMARY EXAMINER